In the Claims:

(Previously Presented) A method for locking onto a downstream frequency by a wireless modem in a broadband wireless access system comprising:

receiving at a radio coupled to the wireless modem, a plurality of signals at least one corresponding to a downstream signal being transmitted on a downstream frequency:

determining, at the wireless modem, if the radio is locked onto the at least one downstream signal received at the radio;

if the radio is locked onto the downstream signal, determining a center frequency of a detected frequency range corresponding to the downstream signal;

if the radio is not locked onto the downstream signal, changing a receiving frequency of the radio by signals from the wireless modern according to a predetermined frequency plan until the radio is locked onto the one downstream signal and then determining the center frequency of the detected frequency range;

determining a frequency offset factor; and

transmitting an instruction from the wireless modem to the radio to operate a frequency other than the center frequency, the frequency other than the center frequency being a function of the frequency offset factor and center frequency.

2. (Previously Presented) The method of Claim 1, wherein the predetermined frequency plan comprises altering the frequency of the radio by a plurality of steps, each of the steps comprising a first frequency and a second frequency, the first frequency being greater than a predetermined frequency and the second frequency being less than the predetermined frequency.

- (Original) The method of Claim 2, wherein the first and second 3. frequency are separated from the predetermined frequency by approximately a same distance.
- 4. (Original) The method of Claim 3, wherein for each frequency step the same distance is approximately a multiple of the same distance of a prior frequency step of the plurality of frequency steps.
- 5. (Previously Presented) The method of Claim 1, wherein the offset factor is approximately equal to the center frequency divided by a nominal frequency.
- 6. (Original) The method of Claim 5, wherein the receiver is coupled to a transmitter that transmits upstream signals from the wireless user device, the method further comprising offsetting a transmit frequency of transmitter circuitry located in the wireless user device according the frequency offset factor.
- 7. (Original) The method of Claim 5, wherein the wireless user device provides signals for upstream transmission to a transmitter that transmits at an upstream frequency, the method further comprising offsetting the upstream frequency according to the offset factor.
- 8. (Previously Presented) The method of Claim 7, wherein the wireless user device makes correction for the downstream frequency, based on corrections for the upstream frequency that are received from a hub.

9-10. (Canceled)

11. (Original) The method according to Claim 1, wherein:

said method is embodied in a set of computer readable instructions stored on a computer readable media; and

said computer readable instructions, when loaded into a computer and executed, cause the computer to perform the steps of Claim 1.

12. (Canceled)

13 - 17 (Canceled)

18-22. (Canceled)

23. (Previously Presented) A device, comprising:

a wireless modem;

a radio coupled to the wireless modem and configured to receive a plurality of signals at least one corresponding to a downstream signal being transmitted on a downstream frequency;

wherein:

the wireless modem is configured to,

determine if the radio is locked onto the at least one downstream signal received at the radio;

if the radio is locked onto the downstream signal, determine a center frequency of a detected frequency range corresponding to the downstream signal;

if the radio is not locked onto the downstream signal, changing a receiving frequency of the radio by signals from the wireless modern according to a predetermined frequency plan until the radio is locked onto the one downstream;

determine a frequency offset factor; and

transmit an instruction from the wireless modem to the radio to operate on a frequency other than the center frequency, the frequency other than the center frequency being a function of the frequency offset factor and center frequency.

24. (Previously Presented) The device according to Claim 23, wherein the downstream signal is a data signal in a broadband wireless access system.

Amendment

- 25. (Previously Presented) The device according to Claim 23, wherein the predetermined frequency plan comprises altering the frequency of the radio by a plurality of steps, each of the steps comprising a first frequency and a second frequency, the first frequency being greater than a predetermined frequency and the second frequency being less than the predetermined frequency.
 - 26. (Previously presented) The device according to Claim 23, wherein:

the first and second frequency are separated from the predetermined frequency by approximately a same distance; and

for each frequency step the same distance is approximately a multiple of the same distance of a prior frequency step of the plurality of frequency steps.

27. (Previously presented) The method of Claim 23, wherein the offset factor is approximately equal to the center frequency divided by a nominal frequency.